OIPE			
SEP 1 1 2006	the United States F	Patent and Trademark Office	
& TRADEMARK	St		
atent No.	7,066,198		
ssued:	Jun 27, 2006		
	Jason L. Smith	<del></del>	
	10/749,968		
iled:	Jan 2, 2004	Militari Military in And Mary State Andre	
	Request for Ce	rtificate of Correction	
		Aug, 08, 2006	
Commissione	er of Patents and Trademarks		
	District of Columbia 20231		
Sir:			
indicat 2. Since s	ed below. such error arose through the fault of	s arose at the respective places in the application the Patent and Trademark Office, it is requested.	
Certific	cate be issued at no cost to applicar	nt.	
Such e	error arose through the fault of applic error is of a clerical or minor nature a eate of Correction is respectfully requ	cant(s). A check for \$ for the fee is und occurred in good faith and therefore issuan uested.	enclosed. oe of the
4. Specifi	·		
June	ecifically, on p. 1, (76) Inventoction Way, San Jose, CA (US) Strafford Ave 3D, Wayne, PA	or: has been erroneously typed 'Jason L. 95131' by the GPO instead of 'Jason I. (US) 19087'	Smith,
	,,	_	ificate
		SEP 1	3 2006
		of Co	rrection
ery respectfi	uliy,	37 <b>- OO</b> I	· OCHUI
atentee	usin 5 5 mith	_	
ncs.	/	Co-Patentee	
	Strafford Ave 3D	<b>)</b>	
	e. PA 19087	<u> </u>	

Form 15-1

(610) 687 - 0599

## United States Patent and Trademark Office

Patent No.:	7,066,198
	7,000,178
Dated:	Jun 27, 2006
inventor(s):	Jason L. Smith
t is certified that e Patent are hereby	error appears in the apove-identified patent and that said Letters corrected as shown below:
"Col 1, of Page Way, San Jose 19087"	e 1 Cover Page (76) Inventor: Jason L. Smith, change 'Junction, CA (US) 95131' to420 Strafford Ave 3D, Wayne, PA (US)
Address of Send	ler: Patent No 7,066,198

	7,066,198					
Dated:	Jun 27, 2006					
inventor(s):	Jason L. Smith					
t is certified that e Patent are hereby	error appears in the above-identified patent and that said Letters corrected as shown below:					
"Col 1, of Page Way, San Jose, 19087"	e 1 Cover Page (76) Inventor: Jason L. Smith, change 'Junction, CA (US) 95131' to420 Strafford Ave 3D, Wayne, PA (US)					



WRONG USPTO ERROR PLEASE FIX

# **States Patent** Smith

ASAP

(10) Patent No.:

US 7,066,198 B2

(45) Date of Patent:

Jun. 27, 2006

#### PRESSURIZED FLUID CONTROLLER USING TILT / PUSH / PULL OPERATOR

(76) Inventor: Jason L. Smith, Junction Way, San Jose, CA-(US) 95131-

420 StraffordAre 30 (

Way ne, PA 19087 (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 104 days.

(21) Appl. No.: 10/749,968

(22)Filed: Jan. 2, 2004

(65)**Prior Publication Data** 

US 2005/0145283 A1 Jul. 7, 2005

(51) Int. Cl. F16P 1/00 (2006.01)

(52)U.S. Cl. ...... 137/377; 137/636

(58) Field of Classification Search ......................... 137/636.2, 137/636.3, 636, 377 See application file for complete search history.

(56)References Cited

## U.S. PATENT DOCUMENTS

3,056,867 A	*	10/1962	Eitel 200/81 R
3,131,574 A	*	5/1964	Clingerman 74/471 R
3,589,242 A	*	6/1971	Peterson et al 91/523
4,206,602 A	*	6/1980	Watson et al 60/433
4,237,629 A	*	12/1980	Schmidt 37/234

4,296,773	Α		10/1981	Harshman et al 137/312
4,404,991	Α		9/1983	Cullen 137/636.1
4,421,135	Α	*	12/1983	Harshman et al 137/312
4,680,465	Α	*	7/1987	Stevens 250/229
4,812,802	Α		3/1989	Watanabe 338/128
5,042,314	Α		8/1991	Rytter et al 74/335
5,692,541	Α	*	12/1997	Brown 137/636.2
5,743,297	Α	*	4/1998	Mueller 137/636.2
6.601.386	В1	*	8/2003	Hori et al 60/443
6,655,229	Bl	*	12/2003	Yamamoto et al 74/471 XY

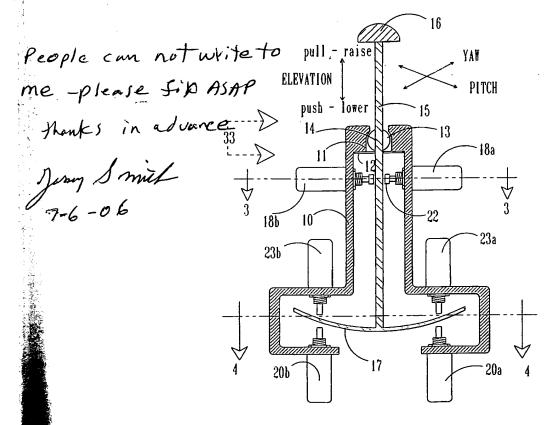
\* cited by examiner

Primary Examiner-Eric Keasel Assistant Examiner-Craig Schneider (74) Attorney, Agent, or Firm-Paul Hentzel

**ABSTRACT** 

An intuitive pressurized fluid controller using tilt/push/pull (3 axis) operator includes a swivel joint such that it can move axially and tilt. A first array of valves is arranged to be activated as the lever tilts. A second array of valves is arranged so they can be activated when the lever is pulled axially. A third array of valves is arranged so they can be activated when the lever is pushed axially. When plumbed to a plurality of pressurable positioners supporting heavy equipment, the first array of valves can control the equipment pitch and roll as the lever is tilted, and the second/third arrays of valves can control the equipment elevation as the lever is pulled/pushed.

## 4 Claims, 6 Drawing Sheets



25 ix m 2le re:ll